

09/399,003

#### United States Patent and Trademark Office

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1754

### NOTICE OF ALLOWANCE AND FEE(S) DUE

	7590 05/29/2003		EXAM	INER ·	
DUNNER	ENDERSON, FARA	BOW, GARRETT &	CHAKRABARTI, ARUN K		
LLP 1300 I STREET, 1	NW		ART UNIT	CLASS-SUBCLASS	
WASHINGTON,		ICA	1634	435-006000	
. 1	·	A-S	DATE MAILED: 05/29/2003		
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.	

TITLE OF INVENTION: POLYMERASE ENHANCING FACTOR (PEF) EXTRACTS PEF PRPTEIN AND METHODS FOR PURFYING AND IDENTIFYING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	08/29/2003

HOLLY HOGREFE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

09/20/1999

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

(703)746-4000 **Fax** 

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

22852

7590

05/29/2003

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20005

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	a anismitted to the CDI TO, On the date indicated below:
(Depositor's name)	
(Signature)	
(Date)	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/399.003	09/20/1999	HOLLY HOGREFE	04121.0116-0	1754

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nonprovisional	NO	\$1300	\$0	\$1300	08/29/2003
EXAMINER CHAKRABARTI, ARUN K		ART UNIT	CLASS-SUBCLASS	1	
		1634	435-006000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a mem attorney or agent) and the name registered patent attorneys or ag is listed, no name will be printed.	patent attorneys ) the name of a ber a registered mes of up to 2 ents. If no name	
Number is required.  B. ASSIGNEE NAME ANI PLEASE NOTE: Unless	in assignee is identified b	D BE PRINTED ON THE I	PATENT (print or type)  I appear on the patent, Inclusion of	of assignee data is only appropria	ate when an assignment h
Number is required.  ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE	an assignee is identified b to the USPTO or is being E	elow, no assignee data wil submitted under separate (B) RES	PATENT (print or type)  I appear on the patent. Inclusion of cover. Completion of this form is SIDENCE: (CITY and STATE OR	of assignee data is only appropria NOT a substitute for filing an assi R COUNTRY)	gnment.
Number is required.  ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE	an assignee is identified b to the USPTO or is being E e assignee category or cate	elow, no assignee data wil submitted under separate (B) RES egories (will not be printed	PATENT (print or type)  I appear on the patent. Inclusion of this form is becover. Completion of this form is become a constant of the patent.  On the patent)	of assignee data is only appropria NOT a substitute for filing an assi COUNTRY)	gnment.
Number is required.  ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE Please check the appropriate (a. The following fee(s) are	an assignee is identified b to the USPTO or is being E e assignee category or cate	elow, no assignee data wil submitted under separate (B) RES egories (will not be printed 4b. Payr	PATENT (print or type)  I appear on the patent. Inclusion of cover. Completion of this form is SIDENCE: (CITY and STATE OR	of assignee data is only appropria NOT a substitute for filing an assi COUNTRY)  corporation or other private g	gnment.
Number is required.  ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE Please check the appropriate a. The following fee(s) are	an assignee is identified b to the USPTO or is being E e assignee category or cate	elow, no assignee data wil submitted under separate (B) RES egories (will not be printed 4b. Payr	PATENT (print or type)  I appear on the patent. Inclusion of cover. Completion of this form is sufficient to the patent of the patent on the patent on the patent of Fee(s):	of assignee data is only appropria NOT a substitute for filing an assi COUNTRY)  .  .  .  .  .  .  .  .  .  .  .  .  .	gnment.
Number is required.  3. ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE Please check the appropriate (a. The following fee(s) are	an assignee is identified be to the USPTO or is being E  e assignee category or cate enclosed:	elow, no assignee data wil submitted under separate (B) RES egories (will not be printed 4b. Payr	PATENT (print or type)  I appear on the patent. Inclusion of cover. Completion of this form is is IDENCE: (CITY and STATE OR on the patent) individual ment of Fee(s):	of assignee data is only appropria NOT a substitute for filing an assignee COUNTRY)  corporation or other private gas and corporation or other private gas and corporation or other private gas as attached.	group entity  government.
Number is required.  3. ASSIGNEE NAME ANI PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE Please check the appropriate a. The following fee(s) are Issue Fee Publication Fee Advance Order - # of C	an assignee is identified be to the USPTO or is being E  e assignee category or cate enclosed:	elow, no assignee data wil submitted under separate (B) RES (B) RES egories (will not be printed 4b. Payr A che Paym The C Deposit	PATENT (print or type)  I appear on the patent. Inclusion of cover. Completion of this form is in the patent.  SIDENCE: (CITY and STATE OR on the patent) individual ment of Fee(s):  Sinck in the amount of the fee(s) is event by credit card. Form PTO-203 commissioner is hereby authorized.	of assignee data is only appropria NOT a substitute for filing an assi R COUNTRY)  corporation or other private purchased. Is is attached. It by charge the required fee(s), or (enclose an extra copy of this	group entity government, to credit any overpayment, to form).

TRANSMIT THIS FORM WITH FEE(S)

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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09/399,003	09/20/1999	HOLLY HOGREFE	04121.0116-0	1754	
22852	7590 05/29/	003	EXAMIN	ER	
FINNEGAN,	FINNEGAN, HENDERSON, FARABOW, GARRETT &			CHAKRABARTI, ARUN K	
DUNNER			ART UNIT	PAPER NUMBER	
LLP 1300 I STREET	, NW		1634		
WASHINGTON	•		DATE MAILED: 05/29/2003		

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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22852	7590 05/29/2003		EXAMINI	ER	
FINNEGAN, I	FINNEGAN, HENDERSON, FARABOW, GARRETT &			CHAKRABARTI, ARUN K	
DUNNER LLP			ART UNIT	PAPER NUMBER	
1300 I STREET	•		1634		
WASHINGTON UNITED STAT	•		DATE MAILED: 05/29/2003		

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Notice of Allowability

Application No. 09/399,003

Applicant(s)

Hogrefe

Examiner

Arun Chakrabarti

Art Unit 1634

The MAILING DATE of this communication appears on the c	over sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAII (or previously mailed), a Notice of Allowance (PTOL-85) or other appropria THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. the initiative of the Office or upon petition by the applicant. See 37 CFR 1	ate communication will be mailed in due course.  This application is subject to withdrawal from issue at
1. X This communication is responsive to 3/27/03	
2. X The allowed claim(s) is/are 58 and 84	·
3. $\boxed{\mathbf{X}}$ The drawings filed on <u>Sep 20, 1999</u> are accepted by the	he Examiner.
4. $\square$ Acknowledgement is made of a claim for foreign priority under	35 U.S.C. § 119(a)-(d).
a) □ All b) □ Some* c) □ None of the:	•
1.   Certified copies of the priority documents have been received.	eived.
2. Certified copies of the priority documents have been rece	eived in Application No
3. Copies of the certified copies of the priority documents happlication from the International Bureau (PCT Rule 17	lave been received in this national stage
*Certified copies not received:	·
5. Acknowledgement is made of a claim for domestic priority under	er 35 U.S.C. § 119(e) (to a provisional application).
(a) $\square$ The translation of the foreign language provisional application	on has been received.
6. $\square$ Acknowledgement is made of a claim for domestic priority under	er 35 U.S.C. §§ 120 and/or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this comm noted below. Failure to timely comply will result in ABANDONMENT of thi EXTENDABLE.	nunication to file a reply complying with the requirements is application. THIS THREE-MONTH PERIOD IS NOT
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note to INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s)	the attached EXAMINER'S AMENDMENT or NOTICE OF why the oath or declaration is deficient.
8.  CORRECTED DRAWINGS must be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's I  1) ☐ hereto or 2) ☐ to Paper No	Patent Drawing Review (PTO-948) attached
(b) $\square$ including changes required by the proposed drawing correct approved by the examiner.	ion filed, which has been
(c) including changes required by the attached Examiner's Ame Paper No	endment/Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should each sheet. The drawings should be filed as a separate paper with a transmit	be written on the drawings in the top margin (not the back) of tal letter addressed to the Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOG attached Examiner's comment regarding REQUIREMENT FOR THE	GICAL MATERIAL must be submitted. Note the HE DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)	
1 Notice of References Cited (PTO-892)	2 Notice of Informal Patent Application (PTO-152)
3 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5 ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 0103	4 Σ Interview Summary (PTO-413), Paper No. <u>Q403</u> .
5 Information Disclosure Statement(s) (PTO-1449), Paper No(s)	6 ☐ Examiner's Amendment/Comment
Material	8 🗶 Examiner's Statement of Reasons for Allowance
9 Other	

Application/Control Number: 09/399,003 Page 2

Art Unit: 1634

# Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: In view of the amendment, the present invention is directed to a DNA construct comprising a sequence encoding an amino acid sequence of SEQ ID NO: 71 operably linked to an expression vector and a DNA encoding a polypeptide possessing Polymerase Enhancing Factor, the DNA comprising at least one of a) one or more of SEQ ID NO: 32-35, 82, 83, or 70; b) a sequence hybridizable to the complement of one or more those sequences under stringent conditions; and c) a degenerate variant of (a) or (b).

No prior art of record either teaches or suggests the DNA comprising the SEQ ID NO: 32-35, 82, 83, or 70 and the amino acid sequence of SEQ ID NO: 71.

In view of the absence of either teaching or suggestion of the DNA comprising the SEQ ID NO: 32-35, 82, 83, or 70 and the amino acid sequence of SEQ ID NO: 71, the present invention is novel and non-obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

2. Any inquiry concerning this communication or earlier communications from the

Application/Control Number: 09/399,003

Page 3

Art Unit: 1634

examiner should be directed to Arun Chakrabarti, Ph.D., whose telephone number is (703) 306-5818. The examiner can normally be reached on 7:00 AM-4:30 PM from Monday to Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion, can be reached on (703) 308-1119. The fax phone number for this Group is (703) 746-4979. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group analyst Chantae Dessau whose telephone number is (703) 605-1237.

Arun Chakrabarti,

Patent Examiner,

April 21, 2003

GARY BENZION, PH

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600